MAPPING INFORMAL SETTLEMENTS

SECURING SUSTAINABLE URBANISATION FOR LUSAKA

IGC International Growth Centre

Cities that Work

Ordnance Survey

Why act now?

Nearly 50% of the projected 2.5 billion increase in the world's urban population to 2050 will be in Commonwealth Countries

65% of the 169 targets underlying the 17 UN's Sustainable Development Goals are linked to territorial and urban development

Focus given to informal settlements which make up over 54% of the urban population in Sub-Saharan Africa

Delivery of well-planned and managed cities is greatly assisted by the availability of high quality, up to date, and disaggregated data

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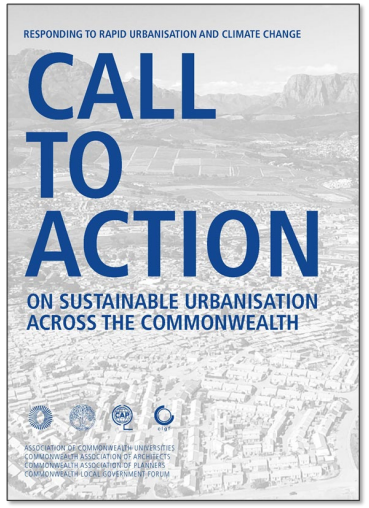
Call to Action on Sustainable Urbanisation

High Commissioners Briefing

WUF10



Call to Action on Sustainable Urbanisation in the Commonwealth

Online Programme

WUF10

Developing a National Urbanisation Policy for Zambia

International Growth Centre (IGC) has been working with UN Habitat to support the Zambia Ministry of Local Government

Promote prosperous, inclusive and resilient urban settlements

Demonstrates the need for a better understanding of the city's informal settlements

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A powerful partnership supported the push for change

Ministry of Local Government, Zambia

Ministry of Lands & Natural Resources, Zambia

The International Growth Centre (IGC)

Commonwealth Association of Architects

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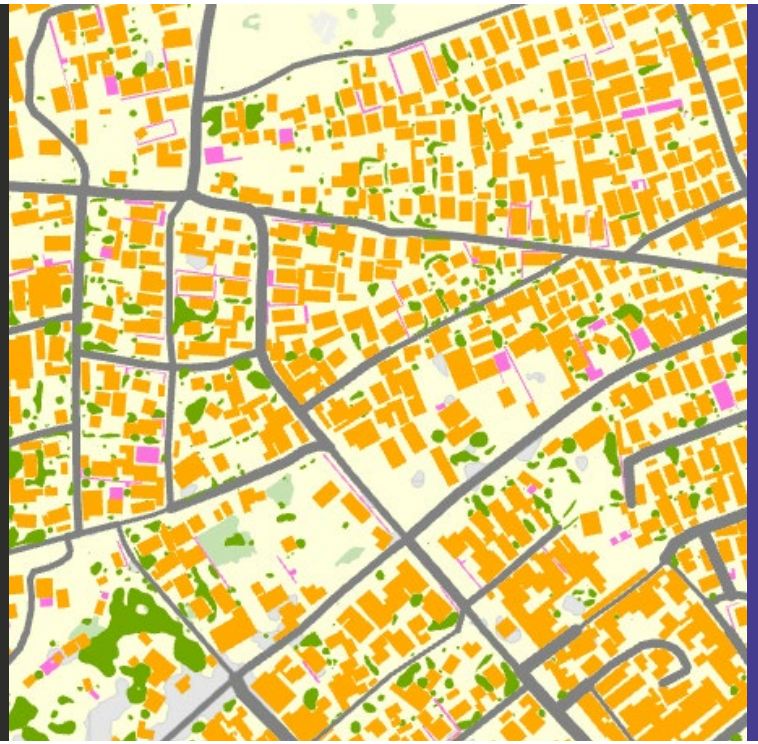
Automated creation of a new base map for Lusaka

Using aerial imagery and automation Ordnance Survey created the base map faster, and more efficiently; 420km^2 of detailed base map was created in just 10% of the time compared to manual methods.



The map helps Lusaka:

- Identifying and locating informal settlements, their size, and the number of built structures
- How the formal and informal neighbourhoods are served by roads and public spaces
- Assessing the density of population based upon the number of buildings
- Prediction of informal settlement growth, their potential capacity and extents

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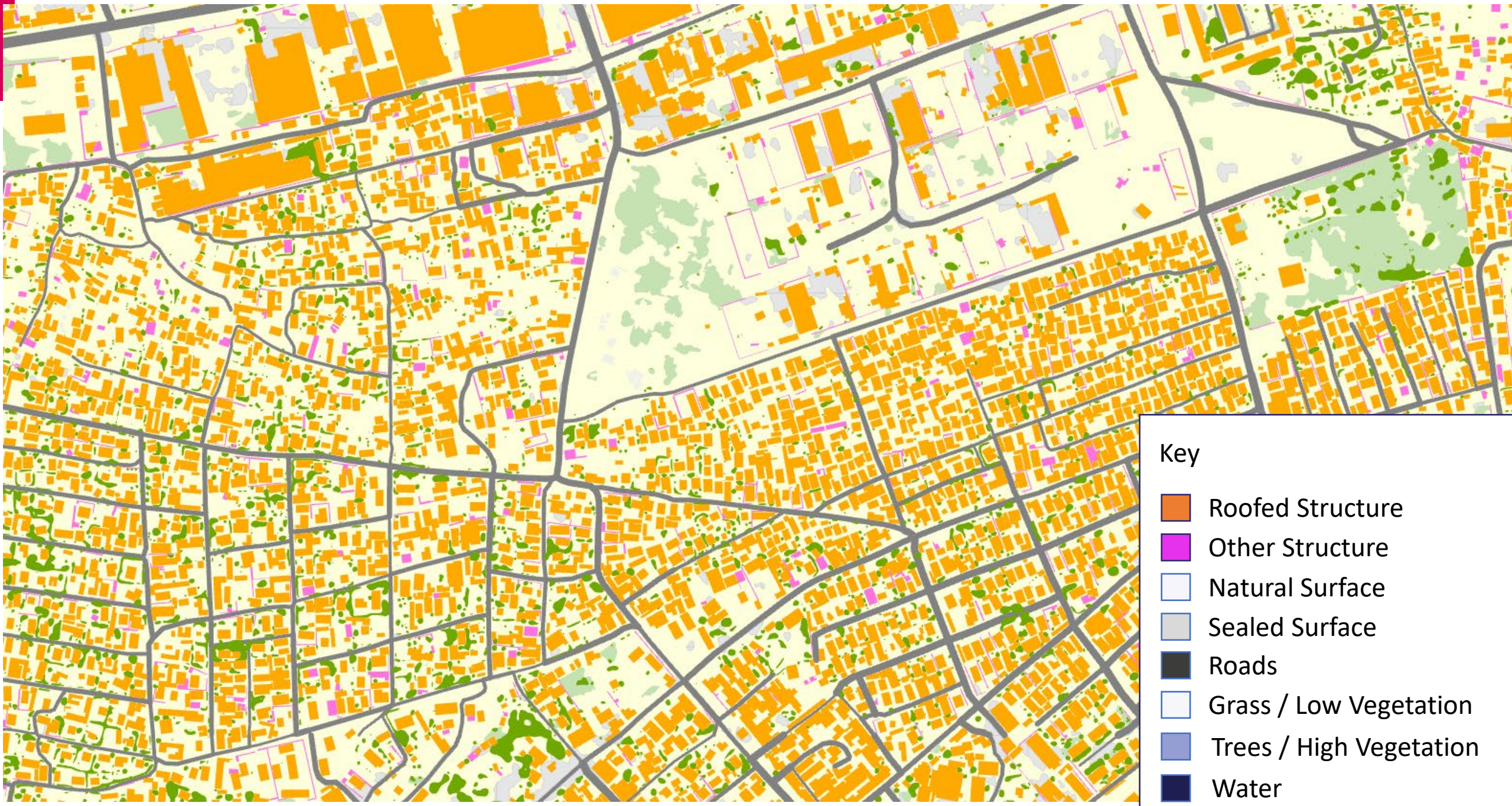

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Identify Results

Feature	Value
Buildings	
SettlName	
(Derived)	
(Actions)	
FeatureID	AA3AF6BD-A419-4362-...
Theme	Buildings
ImgCapDate	2017-01-01
BldingArea	141.4398401
SettlName	
StructType	
NumOccups	0
NYUTypCode	0
NYUTypDesc	
ParcelNum	0
TshipName	
TshipPlnnd	Unplanned
TshipLegSt	
TshipUpgr	
TshipType	Squatter Settlement
WaterProxM	0.0000000

Post Processing Attributed

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Final Deliverable

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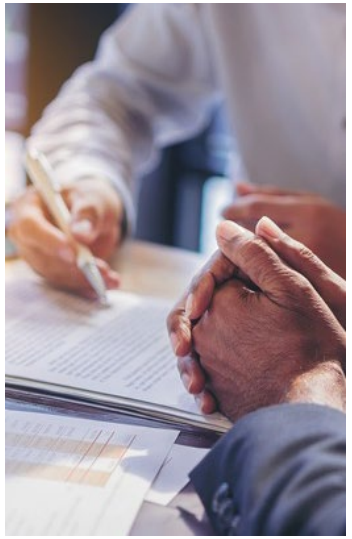
Enabling better planning in Zambia

Access to critical location data faster & at lower cost

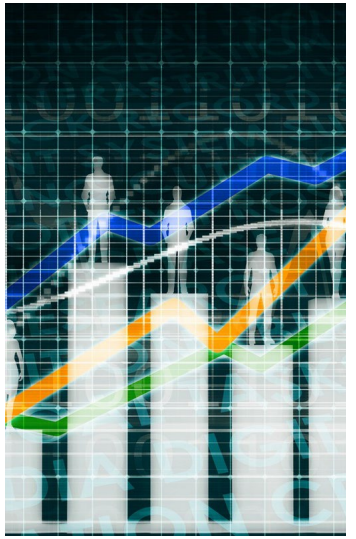
Target investment in critical infrastructure better

Better planning for urban expansion

Underpinning secure and transparent land ownership



Evidence-based policy-setting and decision-making



Integrate with future census data

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Vital for helping manage urbanisation in Zambia

Reduces overall cost of infrastructure investment

Tackle's informality

Enables resilient & sustainable urban futures

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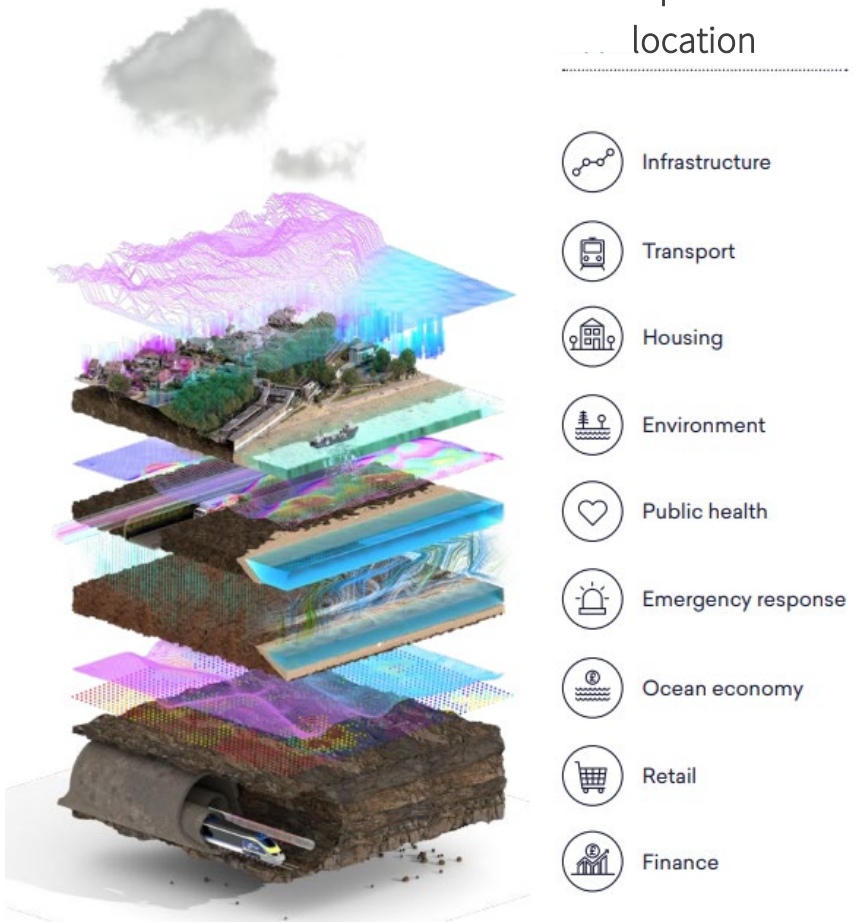
Zambia further potential use cases

The driver for the data generated for Zambia was the identification and monitoring of informal settlements to support government planning and service provision.

Additional uses of this data are now being explored and additional value extracted.

Census	Use of building level information to better plan enumeration area, undertake the census and analyse the data collected
Transport	Provision of transport services to/from informal settlements to support population in travelling to/from business district area to help with employment opportunities
Health	Provision of appropriate health and WASH services to meet demands/needs of those living within informal settlements
Disaster Management	Flood, Pandemic management of multiple emergency responders
Energy and Infrastructure	Provision of energy services into informal settlements and public infrastructure to support them



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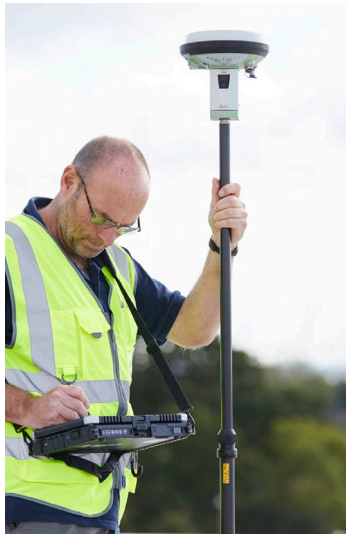
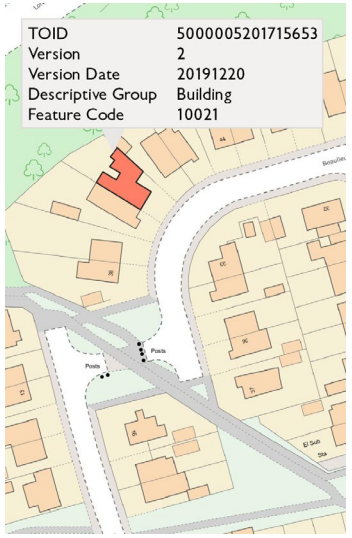
Our experience

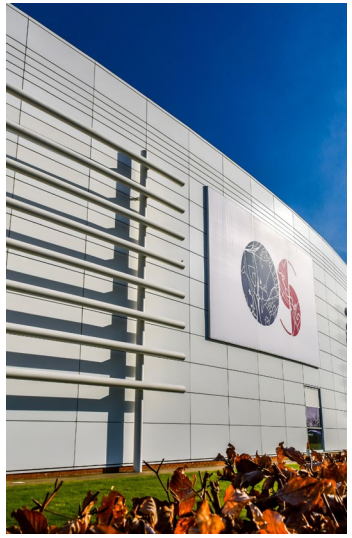
Providers of National Mapping Services for Great Britain



UK Government organization - trustworthy, stable and assured



Creates and maintains one of the largest geospatial databases in the world – quality guaranteed



Unrivalled geospatial expertise on a national scale – knowledge transfer and self-dependency

Long-term partnership - focus on sustainable outcomes

Leading member of Global Geospatial Governance

UN-GGIM
United Nations Committee of Experts on Global Geospatial Information Management

OGC® Making location count.

eurogeographics

SUSTAINABLE DEVELOPMENT GOALS

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THANK YOU

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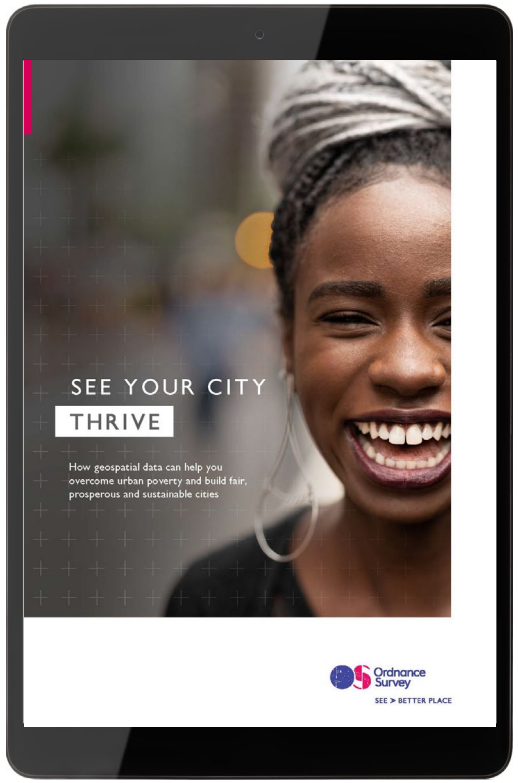

Download our report and see how your city can thrive using data

www.os.uk/urbanisation

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